

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Bouteille d'oxygène
- **Article number:** 522
- **Reference Safety data sheet** Ref. 522 - EN - FDS n°001d
- **CAS Number:**
7782-44-7
- **EC number:**
231-956-9
- **Index number:**
008-001-00-8
- **Registration number** Annex IV/V REACH, exempted
- **UFI:** 2E00-C0X2-U007-GP5M
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU21 Consumer uses: Private households / general public / consumers
- **Application of the substance / the mixture**
Intermediate
Industrial uses
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
GUILBERT EXPRESS
33, Avenue du Maréchal de Lattre de Tassigny
94127 FONTENAY SOUS BOIS Cedex
www.express-fds.fr
- **Further information obtainable from:** info@express.fr
- **1.4 Emergency telephone number:**
+33/825 800 251
ENGLAND
National Poisons Information Service :
 - In England and Wales: NHS Direct - 0845 4647 ;
 - In Scotland: NHS 24 - 08454 24 24 24IRELAND
National Poisons Information Centre, 01 8092566 or 01 8379964.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame over circle

Ox. Gas 1 H270 May cause or intensify fire; oxidiser.



gas cylinder

Press. Gas (Comp.) H280 Contains gas under pressure; may explode if heated.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**

GHS03 GHS04

· **Signal word** Danger· **Hazard statements**

H270 May cause or intensify fire; oxidiser.

H280 Contains gas under pressure; may explode if heated.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P220 Keep away from clothing and other combustible materials.

P244 Keep valves and fittings free from oil and grease.

P370+P376 In case of fire: Stop leak if safe to do so.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.1 Substances**· **CAS No. Description**

7782-44-7 oxygen

· **Identification number(s)**· **EC number:** 231-956-9· **Index number:** 008-001-00-8

SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Generally the product does not irritate the skin.· **After eye contact:** Rinse opened eye for several minutes under running water.· **After swallowing:** If symptoms persist consult doctor.· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.· **For safety reasons unsuitable extinguishing agents:** Water with full jet· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.· **5.3 Advice for firefighters**· **Protective equipment:**

No special measures required.

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Mouth respiratory protective device.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:** No special measures required.
- **6.4 Reference to other sections**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Keep away from heat and direct sunlight.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
Storage:
 · **Requirements to be met by storerooms and receptacles:** No special requirements.
 · **Information about storage in one common storage facility:** Not required.
 · **Further information about storage conditions:** None.
 · **Recommended storage temperature:** Storage temperature : Room temperature
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
 · **Ingredients with limit values that require monitoring at the workplace:** Not required.
 · **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
 · **Appropriate engineering controls** No further data; see item 7.
 · **Individual protection measures, such as personal protective equipment**
 · **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
 · **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
 · **Hand protection**
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 · **Material of gloves**
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
 · **Penetration time of glove material**
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 · **Eye/face protection** Not required.
 · **Body protection:** Protective work clothing

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Gaseous
· Colour:	Colourless
· Odour:	Odourless
· Odour threshold:	Not determined.
· Melting point/freezing point:	-219 °C
· Boiling point or initial boiling point and boiling range	-182.97 °C (7782-44-7 oxygen)
· Flammability	Contact with combustible material may cause fire.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water at 20 °C:	39 g/l
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	0 g/cm ³
· Relative density at 20 °C	1.1 (air = 1)
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Gaseous
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Not determined.
· Explosive properties:	Not determined.
· Solvent content:	
· VOC (EC)	0.00 %
· Solids content:	0.0 %
· SADT (°C)	
· Evaporation rate	Not applicable.

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	May cause or intensify fire; oxidiser.
· Gases under pressure	Contains gas under pressure; may explode if heated.
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void

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· Oxidising solids	<i>Void</i>
· Organic peroxides	<i>Void</i>
· Corrosive to metals	<i>Void</i>
· Desensitised explosives	<i>Void</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions**
 - Reacts with fats and oils.*
 - Reacts with acids.*
 - Reacts with oxidising agents.*
 - Reacts with organic substances.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:**
 - Reducing agents*
 - Organic Products*
 - Combustible substances*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

SECTION 11: Toxicological information

- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
- Substance is not listed.*

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **12.2 Persistence and degradability** *No further relevant information available.*
- **12.3 Bioaccumulative potential** *No further relevant information available.*
- **12.4 Mobility in soil** *No further relevant information available.*
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **12.6 Endocrine disrupting properties**
 - The product does not contain substances with endocrine disrupting properties.*
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** *Not hazardous for water.*

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
 - Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN number or ID number**· **ADR, IMDG, IATA**

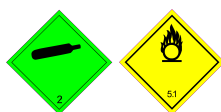
UN1072

· **14.2 UN proper shipping name**· **ADR**

1072 OXYGEN, COMPRESSED

· **IMDG, IATA**

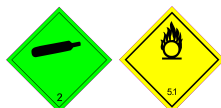
OXYGEN, COMPRESSED

· **14.3 Transport hazard class(es)**· **ADR**· **Class**

2.2 10

· **Label**

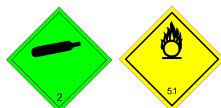
2.2+5.1

· **IMDG**· **Class**

2.2

· **Label**

2.2/5.1

· **IATA**· **Class**

2.2

· **Label**

2.2 (5.1)

· **14.4 Packing group**· **ADR, IMDG, IATA**

Void

· **14.5 Environmental hazards:**· **Marine pollutant:**

No

· **14.6 Special precautions for user**

Not applicable.

· **Hazard identification number (Kemler code):**

25

· **EMS Number:**F-C,S-W· **Stowage Category**

A

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)**

0

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **Transport category**

3

· **Tunnel restriction code**

E

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· IMDG	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Remarks:	refrig. liquid. Compressed: 2.2+5.1, 2169, UN1072, _2-04, -
· UN "Model Regulation":	UN 1072 OXYGEN, COMPRESSED, 2.2 (5.1)

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is listed.
- **Seveso category P4** OXIDISING GASES
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **National regulations:**
- **Waterhazard class:** Generally not hazardous for water.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Gas 1: Oxidizing gases – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

- *** Data compared to the previous version altered.**